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FORM PTO-1449
(Modified)

MAY 12 1999

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: WNET-00400

Serial No.: 09/158,778

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use Several Sheets If Necessary)

Applicant: Kirk Treadaway *et al.*

Filing Date: Sept. 23, 1998

Group Art Unit: 2664

(37 CFR § 1.98(b))

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
20	AA	3,564,144	2/16/71	Diggelmann	170	15	8/14/67
	AB	3,988,545	10/26/76	Kuemmerle <i>et al.</i>	179	15 BV	4/23/75
	AC	4,731,785	3/15/88	Ferenc <i>et al.</i>	370	60	6/20/86
	AD	4,876,742	10/24/89	Vacon <i>et al.</i>	455	66	3/23/87
	AE	4,893,340	1/9/90	Lubarsky <i>et al.</i>	380	30	10/5/88
	AF	5,050,166	9/17/91	Cantoni <i>et al.</i>	370	94.1	4/28/89
	AG	5,119,226	6/2/92	Allen <i>et al.</i>	359	172	3/30/89
	AH	5,159,592	10/27/92	Perkins	370	85.7	10/29/90
	AI	5,220,678	1/15/93	Feci	455	69	8/12/91
	AJ	5,276,703	1/4/94	Budin <i>et al.</i>	375	1	1/13/92
	AK	5,307,348	3/26/94	Buchholz <i>et al.</i>	370	85.2	11/5/90
	AL	5,436,902	7/25/95	McNamara <i>et al.</i>	370	85.3	4/5/94
	AM	5,442,633	8/15/95	Perkins <i>et al.</i>	370	94.1	7/8/92
	AN	5,475,681	12/12/95	White <i>et al.</i>	370	60	1/31/94
	AO	5,519,691	5/21/96	Darcie <i>et al.</i>	370	18	6/3/94
	AP	5,563,728	10/8/96	Allen <i>et al.</i>	359	172	2/22/91
20	AQ	5,563,889	10/8/96	Gard <i>et al.</i>	370	95.1	1/6/95

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation
20	AR	2 306 278 A	4/30/97	United Kingdom	H04L	1/00	No
	AS	WO 94/27382	11/24/94	PCT	H04B	7/216	No

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

20	AT	✓	"Design of A Selective FEC Subsystem to Counteract Rain Fading in Ku-Band TDMA Systems," G. McMillen, B. Mazur and T. Abdel-Nabi, International Journal of Satellite Communications, Vol. 4, pp. 75-82, 1986
	AU	✓	"Frequency Diversity and Its Applications," F. Carassa, G. Tartara and E. Matricciani, International Journal of Satellite Communications, Vol. 6, pp. 313-322, 1988
	AV	✓	"Up-Link Power Control of Satellite Earth-Stations As A Fade Countermeasure of 20/30 GHz Communications Systems," J. Hörle, International Journal of Satellite Communications, Vol. 6, pp. 323-330, 1988
	AW	✓	"A Technique for Estimating the Throughput of Adaptive TDMA Fade Countermeasure Systems," S. Barton and S. Dinwiddy, International Journal of Satellite Communications, Vol. 6, pp. 331-341, 1988
	AX	✓	"Fade Countermeasures At K _a Band for Olympus," M. Willis and B. Evans, International Journal of Satellite Communications, Vol. 6, pp. 301-311, 1988
20	AY	✓	"A Unified Statistical Rain-Attenuation Model for Communication Link Fade Predictions and Optimal Stochastic Fade Control Design Using A Location-Dependent Rain-Statistics Database," Robert Manning, International Journal of Satellite Communications, Vol. 8, pp. 11-30, 1990
	AZ		

Examiner:

Kirk Treadaway

Date Considered:

3/8/04

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

Applicant: Kirk Treadaway *et al.*

Filing Date: Sept. 23, 1998

Group Art Unit: 2664

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

BA	Adaptive Modulation As A Fade Countermeasure. An Olympus Experiment," M. Filip and E. Vilar, International Journal of Satellite Communications, Vol. 8, pp. 31-41, 1990
BB	Radiowave Propagation in Satellite Communications, Louis J. Ippolito, Jr., Van Nostrand Reinhold Company 1986, pp. 42-57 and 64-92
BC	Digital Communications, John G. Proakis, Mc Graw-Hill, Third Edition, 1990, pp. 278-285
BD	CDMA Principles of Spread Spectrum Communication, Andrew J. Viterbi, Addison-Wesley Wireless Communications Series, 1995, pp. 155-168
BE	Information on Giganet Ltd., the Microwave Fiber™ company, displayed at www.giganet-corp.com, April 21, 1998
BF	
BG	
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Examiner:

William L. L...

Date Considered:

3/8/04

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Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Complete if Known

Application Number	09/158,778
Filing Date	September 23, 1998
First Named Inventor	Kirk TREADAWAY et al.
Group Art Unit	2734 2664
Examiner Name	
Attorney Docket Number	TREADAWAY=1D

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Attorney Docket Number	TREADAWAY=1D
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			T ²
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
ES	AA ✓	European Patent Office: <u>Patent Abstracts of Japan</u> , Abstract for JP 07336367, published December 22, 1995, applicant: CANON INC., title: "Radio Communication Equipment"	

Examiner
Signature

Date
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: WNET-00400

Serial No.: 09/158,778

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)Applicant: Kirk Treadaway *et al.*

(37 CFR § 1.98(b))

Filing Date: Sept. 23, 1998

Group Art Unit 2724 *7664*

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
<i>JS</i>	AA	5,754,945	05/19/98	Lin et al.	455	33.2	01/18/96
	AB	5,657,371	08/12/97	Mahany et al.	370	338	07/22/94
	AC	5,648,969	07/15/97	Pasternak et al.	370	349	02/13/95
	AD	5,636,213	06/03/97	Eastmond et al.	370	278	12/28/94
	AE	5,313,461	05/17/94	Ahl et al.	370	94.2	06/08/92
	AF	5,303,303	04/12/94	White	380	49	02/08/93
<i>JS</i>	AG	4,975,906	12/04/90	Takiyasu et al.	370	85.130	02/09/89
	AH						
	AI						
	AJ						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
<i>JS</i>	AK	GB 2316583 A	<input checked="" type="checkbox"/> 02/25/98	UK	H04L	29/06		
<i>JS</i>	AL	WO 98/10541A1	<input checked="" type="checkbox"/> 03/12/98	PCT	H04J	3/16		
	AM							
	AN							
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

<i>A-B</i>	AP	Goldberg, Lee, "100Base-T4 Transceiver Simplifies Adapter, Repeater, and Switch Designs," Electronic Design, vol. 43, no. 6, March 1995, USA.						
	AQ							
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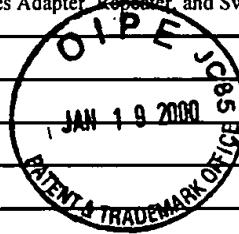
W. H. Lee

Date Considered:

3/18/94

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#4 Sheet 1 of 1

FORM PTO-100
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: WNET-00400

Serial No.: 09/158,778

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)Applicant: Kirk Treadaway *et al.*

(37 CFR § 1.98(b))

Filing Date: Sept. 23, 1998

Group Art Unit: 2731

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
<i>W</i>	AA	5,953,319	09/14/99	Dutta et al.	370	238	09/29/95
	AB						
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	AK							
	AL							
	AM							
	AN							
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	AP	
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Examiner:

W. L. L.

Date Considered:

3/8/04

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